

RECEIVED

MAR 08 2002

TECH CENTER 1600 2900



1600

SEARCHED

**RAW SEQUENCE LISTING**  
 PATENT APPLICATION: US/09/970,820

DATE: 02/27/2002  
 TIME: 15:58:22

**RECEIVED**

Input Set : A:\785332aa.app  
 Output Set: N:\CRF3\02272002\I970820.raw

MAY 01 2002

TECH CENTER 1600 2900

**SEQUENCE LISTING**

## 4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: FALB, DEAN A.  
 8 (ii) TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
 9 TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE

11 (iii) NUMBER OF SEQUENCES: 38

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: PENNIE & EDMONDS  
 15 (B) STREET: 1155 Avenue of the Americas  
 16 (C) CITY: New York  
 17 (D) STATE: New York  
 18 (E) COUNTRY: USA  
 19 (F) ZIP: 10036-2711

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Floppy disk  
 23 (B) COMPUTER: IBM PC compatible  
 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
 25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

27 (vi) CURRENT APPLICATION DATA:

28 (A) APPLICATION NUMBER: US/09/970,820  
 29 (B) FILING DATE: 05-Oct-2001  
 30 (C) CLASSIFICATION:

32 (vii) PRIOR APPLICATION DATA:

33 (A) APPLICATION NUMBER: US 08/386,844  
 34 (B) FILING DATE: 10-FEB-1995

36 (viii) ATTORNEY/AGENT INFORMATION:

37 (A) NAME: Coruzzi, Laura A.  
 38 (B) REGISTRATION NUMBER: 30,742  
 39 (C) REFERENCE/DOCKET NUMBER: 7853-032

41 (ix) TELECOMMUNICATION INFORMATION:

42 (A) TELEPHONE: (212) 790-9090  
 43 (B) TELEFAX: (212) 869-8864  
 44 (C) TELEX: 66141 PENNIE

## 47 (2) INFORMATION FOR SEQ ID NO: 1:

## 49 (i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 288 base pairs  
 51 (B) TYPE: nucleic acid  
 52 (C) STRANDEDNESS: both  
 53 (D) TOPOLOGY: unknown

55 (ii) MOLECULE TYPE: cDNA

57 (iii) HYPOTHETICAL: NO

62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

64 GGCTTAGATG CAGCCTGCAA ATTAAACTT GATTTTCAT CTGTGAAAG CAGTCCTTGT

60

RECEIVED

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/970,820

DATE: 02/27/2002  
TIME: 15:58:22

MAY 01 2002

Input Set : A:\785332aa.app  
Output Set: N:\CRF3\02272002\I970820.raw

TECH CENTER 1600 2900

66	TCCTATGGCC TAATGACCAA CTICCAGGTA ATGAGTATGG TGTCAAGGATT TACACCACTA	120
68	ATTCTGCG AGTATTTTC AGCCACTCTT TCTTCAGCAT TAGCATCCCT AGTGAGTGCT	180
70	CCCAAAATAT ITCAAGGCTCT ATGTAAGGAC AACATCTACC CAGCTTCGA GATGTTGCT	240
72	AAAGGTATG GGAAAAATAA TGAACCTCTT CGIGGCTGCA TCTAACGCC	288
74	(2) INFORMATION FOR SEQ ID NO: 2:	
76	(i) SEQUENCE CHARACTERISTICS:	
77	(A) LENGTH: 178 base pairs	
78	(B) TYPE: nucleic acid	
79	(C) STRANDEDNESS: both	
80	(D) TOPOLOGY: unknown	
82	(ii) MOLECULE TYPE: cDNA	
84	(iii) HYPOTHETICAL: NO	
89	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:	
91	AAAAATAAAAT AAATTAAAGT CTGAGACCAA TTGCCCCACTG TGAATATAAG CACATTAACC	60
93	CCAGGAGGAG CCAAGAACTA CACAAACCTC TCTATGAGAA TTTACCAGTC TTCTTCATT	120
95	TGGCAAGAAA AAGCTCAGGA AAATTTGCTT GTTTAAATTC TATGAGCCTA GTCTATGG	178
97	(2) INFORMATION FOR SEQ ID NO: 3:	
99	(i) SEQUENCE CHARACTERISTICS:	
100	(A) LENGTH: 101 base pairs	
101	(B) TYPE: nucleic acid	
102	(C) STRANDEDNESS: both	
103	(D) TOPOLOGY: unknown	
105	(ii) MOLECULE TYPE: cDNA	
107	(iii) HYPOTHETICAL: NO	
112	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
114	GGGTAATTCA TTAATTACAC TTAAATTG GAAAGTGGGA TAAGAAATCT AAAGTAAACC	60
116	AGCTTATCTT TGAAACAATA TTATTTGAA ATTGGCTTA A	101
118	(2) INFORMATION FOR SEQ ID NO: 4:	
120	(i) SEQUENCE CHARACTERISTICS:	
121	(A) LENGTH: 184 base pairs	
122	(B) TYPE: nucleic acid	
123	(C) STRANDEDNESS: both	
124	(D) TOPOLOGY: unknown	
126	(ii) MOLECULE TYPE: cDNA	
128	(iii) HYPOTHETICAL: NO	
133	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:	
135	GGCTTGGTGG TGATGCCTAC AAGAAATGTT TACATACAAA CACTCTATAC ATCTAACTCC	60
137	CGAAAAAGGA CCAGCTATTT CGGCAACAGA AAAAAGACAA GCATTTAGA GGAGCGTTGC	120
139	TTTCCTTAAA GACCTAACTC ACTTAAGTCT TACAAACAGA AATAACAAGG AGGACAATT	180
141	TCTA	184
143	(2) INFORMATION FOR SEQ ID NO: 5:	
145	(i) SEQUENCE CHARACTERISTICS:	
146	(A) LENGTH: 284 base pairs	
147	(B) TYPE: nucleic acid	
148	(C) STRANDEDNESS: both	
149	(D) TOPOLOGY: unknown	
151	(ii) MOLECULE TYPE: cDNA	
153	(iii) HYPOTHETICAL: NO	
158	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:	

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/970,820

DATE: 02/27/2002

TIME: 15:58:22

Input Set : A:\785332aa.app

Output Set: N:\CRF3\02272002\I970820.raw

160	CTTGGGGATG CTGTTGGAG GAATCCTCAT	GAAGCGCTT GTTTCTCTC TACAAGCCAT	60
162	TCCCCGCATA GCTACCACCA TCATCACCAT	CTCCATGATC CTTTGTGTC CTTGTTCTT	120
164	CATGGGATGC TCCACCCCCAA CTGTGGCCGA	AGTCTACCCC CCTAGCACAT CAAGTTCTAT	180
166	ACATCGGAG TCTCTTGCTT GCCGCAAGGGA	CTGCTCGTGC CCAGATTCTA TCTTCCACCC	240
168	GGTCTGTGGA GACAATGGAA TCGAGTACCT	CTCCCTTGC CATG	284
170	(2) INFORMATION FOR SEQ ID NO: 6:		
172	(i) SEQUENCE CHARACTERISTICS:		
173	(A) LENGTH: 2582 base pairs		
174	(B) TYPE: nucleic acid		
175	(C) STRANDEDNESS: both		
176	(D) TOPOLOGY: unknown		
178	(ii) MOLECULE TYPE: cDNA		
180	(iii) HYPOTHETICAL: NO		
185	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:		
187	GCGCTTACCAT CGATCGGGCC CGGGATCCAG GGCTCAGAGG GAGGACGCAC	CCGCCAGCCA	60
189	GCCGGGAACC TTCCCTCGCG GGCTCCCAGG GCGGGTCTCT	TCCTCTCTC AGCCCTGCTC	120
191	AGGCATTCGG CAGGTCCAGC AGAGGTACAC	CTCCTGCAGC GGGTCCAAG TGACACTCCA	180
193	GCCTGATGGA CCTGACCAAG GAGGCTTOCA	GGAGCACAGA AGGGGCTGCA ACCCAGGTAC	240
195	CCAGAGAGTG AGCAAGCTCA CGGGGACTG	TGCCACGGTGC CCGACACCCG CAGGGACGCC	300
197	CACCGGACGA GCACCGGGAG GGCCCTCGCC	TCCACGGATG CACCATGCCG GTGTGAGGAG	360
199	CATCTGTTCT TCCCCTCTC TGCAAGTAAAC AAACCCAACC	CAAACCAACCA CAGGTGCTCC	420
201	TCCTGGGGAG TTTCCTGTCT GACAAATGCC	AGGCTCACTT CAAGGAGAAAT CACGCTTCTT	480
203	TCTAAAGATG GATTACCAT TTAAAACAGA	GCTCTGGGAG CCTTTCGCA AATCTTGAAA	540
205	GCTGCACGGC GCAGAGACAT GGATGTGACT	TCCCAAGCCC GGGCGTAGG CCTGGAGATG	600
207	TACCCAGGCA CGCGCGAGCC TGCGGCCCCCC AACACCACCT	CCCCCGAGCT CAACCTGTCC	660
209	CACCCGCTCC TGGGACCGC CCTGGCCAAT	GGGACAGGTG AGCTCTCGGA GCACCAGCAA	720
211	TACGTGATCG GCCTGTTCCCT CTCGTGCCCT	TACACCATCT TCCTCTTCCC CATCGGCTTT	780
213	GTGGGCAACA TCCTGATCCT GGTGGTGAAC ATCAGCTTCC	GCGAGAAAGAT GACCATCCCC	840
215	GACCTGTACT TCATCAACCT GGCGGTGGCG GACCTCATCC	TGGTGGCCGA CTCCCTCATT	900
217	GAGGTGTTCA ACCTGCACGA CGGGTACTAC	GACATCGCCG TCCTGTGCCAC CTTCATGTCG	960
219	CTCCTCTGCG GGGTCAACAT GTACAGCAGC	GTCTCTTCC TCACCTGGAT GAGCTTCGAC	1020
221	CGCTACATCG CCCTGGCCAG GGCCATGCGC	TGCAAGCTGT TCCGCACCAA GCACCACGCC	1080
223	CGGCTGAGCT GTGGCCTCAT CTGGATGGCA	TCCGTGTCAG CCACGCTGGT GCCCTTCACC	1140
225	GCCGTGCACC TGCAGCACAC CGACGAGGCC	TGCTCTGTT TCGCGGATGT CGGGAGGTG	1200
227	CAGTGGCTCG AGGTACAGCT GGGCTTCATC	GTGCCCTTCG CCATCATCGG CCTGTGCTAC	1260
229	TCCCTCATTG TCCGGGTGCT GGTCAAGGGCG	CACCGGCACC GTGGGCTGCG GCCCCGGCGG	1320
231	CAGAAGGCGC TCCGCATGAT CCTCGCAGTG	GTGCTGGTCT TCTTCGTCTG CTGGCTGCCG	1380
233	GAGAACGTCT TCATCAGCGT GCACCTCTG	CAGCGGACGC AGCCTGGGGC CGCTCCTTGC	1440
235	AAGCAGTCTT TCCGCCATGC CCACCCCTC	ACGGGCCACA TTGTCAACCT CGCCGCCTTC	1500
237	TCCAACAGCT GCCTAAACCC CCTCATCTAC	AGCTTCTCG GGGAGACCTT CAGGGACAAG	1560
239	CTGAGGCTGT ACATTGAGCA GAAAACAAT	TTGCCGGCCC TGGACCGCTT CTGTCACGCT	1620
241	GCCCTGAAGG CGTCATTCC AGACAGCACC	GAGCAGTCGG ATGTGAGGTT CAGCAGTGCC	1680
243	GTGTAGACAG CCTTGGCCGC ATAGGCCAG	CCAGGGTGTG ACTCGGGAGC TGACACACACC	1740
245	TGGGTGGACA CAAGGCACGG CCACGTCACT	TCTCTAAACT GCGGTCAAGAT GTGGCTTCTG	1800
247	GCTCCTCGGG CCTCGCGAGG GTCACGCTTG	CCTGGTCACC CTGGGCTGC TTAGGAAACC	1860
249	TCAGGACTGG TCACCTTGCA CCTCTCACAC	AGAATTGCTA CAATCCCAA GCGCTCGCCC	1920
251	CGCAGGGTCC AAAGGCCAGC GGTGACCGC	CTGTCACCCA GCTCCTCCCC GCGAACCTG	1980
253	CCTGCCGCTG CACCTGCCG CTGCTGCAGG	AAACATTCT GACACCGTCG ACCAGGAAAG	2040
255	CCACACGGAG AGGCCACTGT GGGTGAAGCG	CCTCAGTTAC ACAGGAACCC TAAAGCAAAT	2100

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/970, 820

DATE: 02/27/2002  
TIME: 15:58:22

Input Set : A:\785332aa.app  
Output Set: N:\CRF3\02272002\I970820.raw

257	CIGCCACCGT	GGGGAACGT	ACGCTGGAGA	TGCAAGGTGC	TGGTGGGTCT	GAGCTGGACG	2160
259	TCGCAGGTGTG	TCCTCTGTGC	CCACGGTCTG	AGCTAGCTAG	CGCACCGCCG	AGTTAAAGAG	2220
261	GAGAAGGAAA	ACATGCTGCT	CTGGTGCACG	CCTGAGCGTC	CITCCATCTTC	CAGGATGGCA	2280
263	GCAAATGGCCG	TGTGCGGCCCT	CACCAGGCC	ACGAGGGAGCA	GCAGCGCTCG	GCCCAGGAGCA	2340
265	GCAGGAAGGC	CCCTCTGTGG	AGCGCCGCC	GTCTGCTCCG	GGGTGGTICA	GTCACTGCTT	2400
267	GTTGACATCA	ACATGGCAAT	TGCACTCATG	TGGACTGGGA	CCGTGCGAGC	TGCCGTGTGG	2460
269	GTTAGTCGGG	TGCCAGGACA	ATGAAATACT	CCAGCACCTG	TGGCTGACGA	ATTCTGTTCT	2520
271	ACAGAAGTAA	CAGCTGGGA	CAACTGCGAT	GATGATGTAA	AAACCTTCCC	ATAAAATAAG	2580
273	CC						2582
275	(2)	INFORMATION FOR SEQ ID NO: 7:					
277	(i)	SEQUENCE CHARACTERISTICS:					
278	(A)	LENGTH: 128 base pairs					
279	(B)	TYPE: nucleic acid					
280	(C)	STRANDEDNESS: both					
281	(D)	TOPOLOGY: unknown					
283	(ii)	MOLECULE TYPE: cDNA					
285	(iii)	HYPOTHETICAL: NO					
290	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 7:					
292	GGGAGGTGGG	CTCCTGCTCA	TCCTAGGCAT	CGCACTGATT	GTTACCTGTT	GCAGAAAGAA	60
294	TAAAAATGAC	ATAAGCAAAC	TCATCTTCAA	AAGTGGAGAT	TTCCAAATGT	CCCCGTATGC	120
296	TGAATACC						128
298	(2)	INFORMATION FOR SEQ ID NO: 8:					
300	(i)	SEQUENCE CHARACTERISTICS:					
301	(A)	LENGTH: 13 base pairs					
302	(B)	TYPE: nucleic acid					
303	(C)	STRANDEDNESS: single					
304	(D)	TOPOLOGY: linear					
306	(ii)	MOLECULE TYPE: DNA (genomic)					
308	(iii)	HYPOTHETICAL: NO					
311	(ix)	FEATURE:					
312	(A)	NAME/KEY: misc_feature					
313	(B)	LOCATION: 12					
316	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 8:					
318	TTTTTTTTTT	TNG					13
320	(2)	INFORMATION FOR SEQ ID NO: 9:					
322	(i)	SEQUENCE CHARACTERISTICS:					
323	(A)	LENGTH: 10 base pairs					
324	(B)	TYPE: nucleic acid					
325	(C)	STRANDEDNESS: single					
326	(D)	TOPOLOGY: linear					
328	(ii)	MOLECULE TYPE: DNA (genomic)					
330	(iii)	HYPOTHETICAL: NO					
335	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 9:					
337	AGCATGGCTC						10
339	(2)	INFORMATION FOR SEQ ID NO: 10:					
341	(i)	SEQUENCE CHARACTERISTICS:					
342	(A)	LENGTH: 23 base pairs					
343	(B)	TYPE: nucleic acid					
344	(C)	STRANDEDNESS: single					

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/970,820

DATE: 02/27/2002

TIME: 15:58:22

Input Set : A:\785332aa.app

Output Set N:\CRF3\02272002\I970820.raw

345 (D) TOPOLOGY: linear  
347 (ii) MOLECULE TYPE: DNA (genomic)  
349 (iii) HYPOTHETICAL: NO  
354 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
356 CACCCCTGGC ATCTTCTCCT TCC 23  
358 (2) INFORMATION FOR SEQ ID NO: 11:  
360 (i) SEQUENCE CHARACTERISTICS:  
361 (A) LENGTH: 24 base pairs  
362 (B) TYPE: nucleic acid  
363 (C) STRANDEDNESS: single  
364 (D) TOPOLOGY: linear  
366 (ii) MOLECULE TYPE: DNA (genomic)  
368 (iii) HYPOTHETICAL: NO  
373 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
375 ATCCCTCCCC AGTTCACCCC ATCC 24  
377 (2) INFORMATION FOR SEQ ID NO: 12:  
379 (i) SEQUENCE CHARACTERISTICS:  
380 (A) LENGTH: 21 base pairs  
381 (B) TYPE: nucleic acid  
382 (C) STRANDEDNESS: single  
383 (D) TOPOLOGY: linear  
385 (ii) MOLECULE TYPE: DNA (genomic)  
387 (iii) HYPOTHETICAL: NO  
392 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
394 CCTGATAGAT GGGCACTGTG T 21  
396 (2) INFORMATION FOR SEQ ID NO: 13:  
398 (i) SEQUENCE CHARACTERISTICS:  
399 (A) LENGTH: 22 base pairs  
400 (B) TYPE: nucleic acid  
401 (C) STRANDEDNESS: single  
402 (D) TOPOLOGY: linear  
404 (ii) MOLECULE TYPE: DNA (genomic)  
406 (iii) HYPOTHETICAL: NO  
411 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
413 GAACACGGCA TTGTCACTAA CT 22  
415 (2) INFORMATION FOR SEQ ID NO: 14:  
417 (i) SEQUENCE CHARACTERISTICS:  
418 (A) LENGTH: 22 base pairs  
419 (B) TYPE: nucleic acid  
420 (C) STRANDEDNESS: single  
421 (D) TOPOLOGY: linear  
423 (ii) MOLECULE TYPE: DNA (genomic)  
425 (iii) HYPOTHETICAL: NO  
430 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
432 AAGTCGCGCC CGCCCCTGAA AT 22  
434 (2) INFORMATION FOR SEQ ID NO: 15:  
436 (i) SEQUENCE CHARACTERISTICS:  
437 (A) LENGTH: 24 base pairs  
438 (B) TYPE: nucleic acid

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/970,820

DATE: 02/27/2002

TIME: 15:58:23

Input Set : A:\785332aa.app

Output Set: N:\CRF3\02272002\I970820.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]